



Multiband 2.4/4.9/5 GHz & GPS
(Black shown, white also available)

Dome Surface Mount (Pat.Pnd.) Multi Band 2.4/4.9 - 6 GHz & GPS

- Stud mounts easily to roof, trunk or bulkhead
- High performance GPS with 26 dB active amplifier (dual 3.3 & 5 V)
- Secure, Discreet; mounts to 5/8" hole (16 mm)
- Operates 2.4/5 GHz & 4.9 Public Safety Bands

This multiband Stud mount antenna integrates several broadband/data networks with GPS. The antenna operates on 2.4 WiFi, 5 GHz WiFi, and GPS. The antenna will also operate on 2.4 Video Surveillance, and 4.9 GHz for Public Safety Broadband. The antenna is excellent for any application needing a secure and stealthy antenna.

The design uses a 5/8" feed thru (16 mm) for securing to the vehicle. Access to the underside of the body surface is required to complete the installation. The GPS feed of the antennas are outfitted with 15 feet (4.5 meters) of RG-174 cable & SMB or SMA connectors. All connectors are male (plugs). The broadband cable is 15 feet of low loss RF-195 cable (4.5 meters). Please consult factory for special lengths or connectors.

GPS performance is 26 dB, with 5 dBi antenna gain. The GPS circuit has a low noise figure (2.0 dB max) with excellent filter characteristics. Power for the GPS amplifier (+3.3/5 VDC) and signal is applied through the same cabling directly to the GPS circuit.

The dome portion of the antenna measures 3.375" D x 1.5" H total (86mm x 38mm). It is made of weatherproof ASA Resin, which is a strong, durable outdoor material with UV stable properties. The antenna is supplied with a weatherseal gasket for the underside and mounting nut.

Antenna Model Configurator

DM- - example - DM-W15-3A2C

Freq & GPS Voltage

Code	Description
W15	2.4/4.9-6 GHz with GPS

Note: Models are also available for operation on other Data bands, including GSM/EV-DO, 1xRTT and Nextel band. Consult additional spec sheets for model/details.

Cellular Cable & Connector

Code	Description
3A	RF-195 & TNC
3C	RF-195 & SMA
3H	RF-195 & Fakra
3J	RF-195 & Rev Pol SMA
3K	RF-195 & Rev Pol TNC
3X	RF-195 & N connector

GPS Cable & Connector

Code	Description
2C	RG-174 & SMA
2D	RG-174 & SMB
2E	RG-174 & MCX
2F	RG-174 & MMCX
2H	RG-174 & Fakra
2L	RG-174 & SMC

Specifications

Frequency:

GPS	1575.42 +/- 2 MHz
2.4 Band	2.4 - 2.5 GHz
4.9 Public Safety	4.9 - 5 GHz
5 GHz Broadband	5 - 6 GHz

2.4 & 5 GHz Gain:

2.5 dBi

GPS Gain:

26 dB, 5 dBi Antenna

VSWR:

2:1 max over range

Noise Figure:

2.0 dB max, 1.7 dB typical

Operating Temp:

-40° to +85° C

Nominal Impedance:

50 ohms

Maximum Power:

10 Watts (800/900 MHz Band)

Amplifier Bias:

Dual 3.3 & 5 VDC +/- 10%

Current:

20 mA max, 10 mA typical

Cable:

GPS	RG-174, 15 ft (4.5 meters)
2.4/5 GHz	RF-195, 15 ft (4.5 meters)

Case:

2.85"D x 1.45"H (72 mm x 37 mm)

Case Material:

ASA resin (specify color black/white) (Acrylonitrile Styrene Acrylate)

Stud Mounting:

5/8" dia x 3/4" long (16 mm x 14 mm) thread for 3/8" thick (9.5 mm) metal

Hardware:

Locknut and gasket included

Connector:

See above, other configurations are available, consult factory.